

PATENT ABSTRACTS OF JAPAN

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(21)Application number : 58-187519	(71)Applicant : FUJI PHOTO FILM CO LTD
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(54) MAGNETIC RECORDING MEDIUM**(57)Abstract:**

PURPOSE: To improve remarkably the video sensitivity and the S/N ratio of a magnetic recording medium by interposing a layer having specified surface roughness cured by radiation polymn. between the support having specified surface roughness and the magnetic layer.

CONSTITUTION: A layer having $\leq 0.005\mu\text{m}$ surface roughness cured by radiation polymn. is interposed between the support and the magnetic layer of a magnetic recording medium. The surface roughness of the rear side of the support on which the magnetic layer is not formed is $\geq 0.007\mu\text{m}$ (cutoff 0.25mm). The cured layer contains a radiation-polymerizable compound. For example, diethylene glycol is coated on a polyethylene terephthalate support of $14.5\mu\text{m}$ thickness so that the thickness is regulated to $4\mu\text{m}$ after drying, and electron beams are irradiated under the conditions of 100kV acceleration voltage, 5mA beam current and 5Mrad absorption dose.

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